Third-year Ph.D. student Email: wenyue.zou@unil.ch

Google Scholar and ResearchGate: Wenyue Zou

Institute of Earth Science Dynamics,

Faculty of Geosciences and Environment, University of Lausanne



III RESEARCH INTERESTS

- Climatic and hydrologic extremes
- > Stochastic and dynamic modelling of extreme rainfall
- Flood risk assessment in urban and catchment
- ➤ Climate change impact



PROFESSIONAL SKILLS

- > Proficient in extreme rainfall frequency analysis and storm stochastic modelling
- Proficient in geostatistical downscaling and interpolation
- Proficient in MATLAB and ArcGIS for mapping and data analysis
- Skillful in modelling by Python and R

▼ EDUCATION BACKGROUND

Ph.D. in Environmental Science, Faculty of Geosciences and Environment, University of Lausanne

Thesis: Future changes in rainfall properties and their effect on urban flooding.

Supervisor: Prof. Nadav Peleg

M.sc in Physical Geography, Faculty of Geographic Science,
Beijing Normal University

GPA:3.75/4 (10%)

Thesis: Spatiotemporal characteristics of rainfall events based on a highly dense rain-gauge network.

Supervisor: Prof. Shuiqing Yin

B.sc in Geography, Faculty of Geographical Science, Northwest Normal University

GPA:3.84/4 (1%)

Thesis: Spatial and temporal variation characteristics of hourly precipitation during the Warm season 1961-2012 in the Haihe River basin.

Supervisor: Prof. Junju Zhou

Sup

Wenyue Zou

PUBLICATIONS

- **Zou, W.,** et al., in preparation. Morphing sub-daily rainfall fields based on temperature shifts to assess changes in rainfall extremes.
- **Zou, W.,** et al., 2024. Multiple-point geostatistics-based spatial downscaling of heavy rainfall fields. Journal of Hydrology. https://doi.org/10.1016/j.jhydrol.2024.130899
- **Zou, W.,** et al., 2021. Spatial interpolation of the extreme hourly precipitation at different return levels in the Haihe River basin. Journal of Hydrology. https://doi.org/10.1016/j.jhydrol.2021.126273
- Li, Q., Zhou, J., **Zou, W**., et al., 2020. A tributary-comparison method to quantify the human influence on hydrological drought. Journal of Hydrology. https://doi.org/10.1016/j.jhydrol.2020.125652

SERVICES

> 2024	PhD committee - Expertise Center for Climate Change, University of Lausanne Assist in organizing the center seminars and "weather club"
> 2024	Reviewer, Earth Surface Processes and Landforms
> 2022	Teaching assistant, Faculty of Geosciences and Environment, University of Lausanne • Watershed and river network modelling (Master course)
> 2020	 Teaching assistant, Faculty of Geographical Science, Beijing Normal University Meteorology measurement fieldwork (Bachelor) Assessment of climate change and its impacts (Master)
> 2023	Student committee – CLIMACT, University of Lausanne and EPFL
> 2021	Student committee in Association du Corps Intermédiare, FGSE, UNIL

■ AWARDS AND SCHOLARSHIPS

- ▶ 2021 Excellent Master Thesis in Beijing Normal University
- ▶ 2018, 2019 Academic Scholarship in Beijing Normal University (first class, twice)
- First prize in Scientific Research Challenge Cup at Northwest Normal University (5%)
- ▶ 2016 First prize in National College Students Mathematic Modeling Competition (10%)
- ▶ 2015 National Endeavor Scholarship (10%)